

Lawrence W. Lindquist  
Manager

May 5, 1987

Mr. R.F. White  
U.S. EPA, Region 10  
M/S 532  
1200 Sixth Avenue  
Seattle, WA 98101

Dear Rick:

Following is an update of the asbestos survey submitted to you on February 23, 1987. This is based on bulk asbestos analyses that have been completed since that time. Attached are the laboratory results, most of which were obtained from Invirex.

A. Cottrell Area.

1. Pipe Treater Building.

a. Top floor - between two sections of treater: thin asbestos paper lining in hopper, between tile and steel.

Reference: Report of Analysis pending; verbally indicated asbestos 40%.

B. Arsenic Plant Area.

1. Metallic Arsenic Plant.

a. Tar felt material on roof of building.

Reference: See Report of Analysis dated April 17, 1987 and April 23, 1987.

2. Arsenic Kitchen Area.

a. Tar felt material on roof of building.

Reference: Same as for B.1. above.

3. No. 1 and No. 2 Brick Flues.

a. Tar felt material on roof of building.

Reference: See Report of Analysis dated February 19, 1987.

C. No. 3 Boiler Building.

1. Insulation on elbows of pipe.

Reference: See Report of Analysis dated February 25, 1987.

2. Economizer package boiler insulation.

Reference: See Report of Analysis dated February 19 and 25, 1987.

Very truly yours,

*Curtis E. Dungey* 110994

Curtis E. Dungey  
Senior Environmental Scientist

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March 24, 1987

**REPORT OF ANALYSIS**

Our analysis of the sample

Bulk Samples

From

Asarco Incorporated  
Sample received  
3/20/87

Marked

As follows

SAMPLE IDASBESTOS#1 N. Wall  
E. Control Room

Approximately 5%

#2 Flue Area  
#1PITR

Approximately 20%

#3 Flue Area  
#1PITR

Approximately 20%

#4 Roastor Area  
S. End Large  
Pipe 20' off  
Ground

&lt;1%

North end #1 Plate  
Bldg Chnok material  
on railing

Approximately 30%

North end #1 Plate  
Bldsg - on inside  
wall above beam

&lt;1%

TO: Asarco Incorporated  
ATTENTION: Curtis Dungey  
P. O. Box 1677  
Tacoma, WA 98401

BY



FFB 26 RECD



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February 25, 1987

REPORT OF ANALYSIS

Our analysis of the sample

From

Marked

SAMPLE ID

Bulk Sample  
*Economizer package boiler*

Bulk Sample

Invirex Demolition  
Sample received  
2/20/87

As Follows

ASBESTOS

Approximately 50%

TO: Invirex Demolition Inc.  
ATTENTION: Jay Schwall  
P. O. Box 1242  
Tacoma, WA 98401

BY

*George P. Schwall*



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FEB 26 REC'D

February 25, 1987

## REPORT OF ANALYSIS

Our analysis of the sample

Bulk Sample

From

Invirex Demolition  
Sample received  
2/20/87

Marked

As Follows

SAMPLE IDASBESTOS

Top of #2 Exit Flue

&lt;1%

Top of #2 Exit Flue

Approximately 2%

Pipe in #3 Boiler Area

&lt;1%

Pipe in #3 Boiler Area

&lt;1%

Pipe in #3 Boiler Area

Approximately 2%

Pipe in #3 Boiler Area

&lt;1%

#17

&lt;1%

COMMENT: It has been our experience to find pipe coverings with variable asbestos content. Some samples will have asbestos and some do not.

TO: Invirex Demolition Inc.  
ATTENTION: Jay Schwall  
P. O. Box 1242  
Tacoma, WA 98401

BY



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February 19, 1987

## REPORT OF ANALYSIS

Our analysis of the sample

From

Bulk Sample

Invirex Demolition  
Sample received  
2/17/87

Marked

As Follows

SAMPLE IDASBESTOS

#1 Plate Treater Roof

Approximately 5%

Bottom layer #2 Plate Treater Roof

Approximately 5%

Top layer #2 Plate Treater Roof

Approximately 20%

Tar paper end of #2 Plate Treater

Approximately 20%

Tar paper bottom layer Roof  
of Flues 1 & 2

Approximately 10%

Tar paper top layer Roof  
of Flues 1 & 2

Approximately 5%

Roof of Power House

Approximately 20%

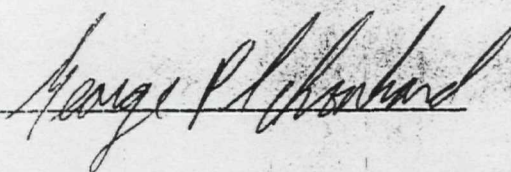
Economizer package boiler

&lt;1%

NOTE: Samples 1 through 7 were not friable.

TO: Invirex Demolition Inc.  
ATTENTION: Jay Schwall  
P. O. Box 1242  
Tacoma, WA 98401

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April 17, 1987

REPORT OF ANALYSIS

Our analysis of the sample

From

Tarpaper

Invirex Demolition  
Sample received  
4/14/87

Marked

As Follows

SAMPLE ID

ASBESTOS

Met Arsenic Area  
#1

<1%

Arsenic Kitchen  
Area #2

<1%

Arsenic Kitchen  
Area #3

Approximately 20%

Arsenic Kitchen  
Area #4

Approximately 5%

TO: Invirex Demolition Inc.  
ATTENTION: Jay Schwall  
P. O. Box 1242  
Tacoma, WA 98401

BY

*George P. Schwall*



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April 23, 1987

## REPORT OF ANALYSIS

Our analysis of the sample

From

Tarpapér

Invirex Demolition  
Sample received  
4/20/87

Marked

As Follows

SAMPLE IDASBESTOS

#1 Metallic Arsenic

Approximately 5%

#2 Metallic Arsenic

&lt;1%

#3 Arsenic Kitchen

Approximately 10%

#4 Arsenic Kitchen

&lt;1%

TO: Invirex Demolition Inc.  
ATTENTION: Jay Schwall  
P. O. Box 1242  
Tacoma, WA 98401

BY

## ASARCO TACOMA SMELTER SITE STABILIZATION

Project: HWD-046B

Sample No: 87 070024

Begin Sample Date: 87/02/13 10:55

Source:

Laboratory: RX

Description: COVERING ON DOOR OF HOPPER IN GOD ROASTE

Asbestos - Bulk Anal. Parameter	Sld/SemiSld Result Units
Chrysotile	40 %
Amosite	UND %
Anthophyllite	UND %
Tremolite	UND %
Actinolite	UND %
Crocidolite	UND %
Glass Fiber	UND %
Mineral (Rock) Wool	UND %
Cellulose	UND %

(Sample Complete)